A Pharmacy Pilot or Demonstration Research Project for a New Practice Model for Community Pharmacy

A Demonstration Project to Study the Effects of Implementing Tech-Check-Tech Programs in Community Practice to Engage Community Pharmacists in Clinical Pharmacy Services in Iowa

PHASE ONE QUARTER SIX REPORT

Iowa Pharmacy Association &
Drake University College of Pharmacy and Health Sciences

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LEADERSHIP TEAM MEMBERS

Megan Myers, PharmD, will serve as Project Coordinator. She will oversee the project, conduct regular on-site visits with each site, coordinate the study activities, chair the regular team meetings, and lead the writing of the study reports to the Board of Pharmacy.

Michael Andreski, RPh, MBA, PhD, Assistant Professor of Social and Administrative Pharmacy, Drake University College of Pharmacy and Health Sciences serves as research consultant and principal investigator, participates in regular team meetings, and participates in the writing of the study report.

T.J. Johnsrud, NuCara Health Management, Inc., provides a pharmacy management perspective for coordinating the community pharmacy clinical services and Tech-Check-Tech programs within the community pharmacy sites. He participates in regular team meetings.

Anthony Pudlo, PharmD, MBA, BCACP, Vice-President of Professional Affairs, and Kate Gainer, PharmD, Executive Vice President/CEO, Iowa Pharmacy Association, will oversee coordination of clinical pharmacy services available to community pharmacy sites in this study.

PHARMACY SITE-SPECIFIC INFORMATION

Pharmacy Site #1:

Towncrest Pharmacy
2306 Muscatine Avenue
lowa City, IA 52240
319.337.3526
License #838
Mike Deninger, Pharmacist-In-Charge
License #17620
Randy McDonough, On-Site Responsible Pharmacist
License #16918

Pharmacy Site #2:

Mercy Family Pharmacy 1111 3rd Street SW Dyersville, IA 52040 563.875.7624 License #129 Julie Panosh, Pharmacist-In-Charge License #19527

Pharmacy Site #3:

Medicap Pharmacy #8003 105 Lincoln Way Ames, IA 50010 515.232.1653 License #123 Stephanie McCollom, Pharmacist-In-Charge License #21189

Pharmacy Site #4:

NuCara Pharmacy #11 120 E. Madison Street Washington, IA 52353 319.653.5404 License #342 Rachel Clemens, Pharmacist-In-Charge

Pharmacy Site #5:

NuCara Pharmacy #30 107 N Main Street Lenox, IA 50851 641.333.2260 License #1454 Alicia Lynn, Pharmacist-In-Charge License #21963

Pharmacy Site #6:

NuCara Pharmacy #12 500 2nd Street Traer, IA 50675 319.478.8711 License #467 Phyllis A. McKee, Pharmacist-In-Charge License #13929

Pharmacy Site #7:

NuCara Pharmacy #10 621 Broad Street Story City, IA 50248 515.733.2233 License #78 Betty Grinde, Pharmacist-In-Charge License #15568

IPA'S NPM GOALS:

- 1) Sites are using Tech-Check-Tech (TCT) at least 75% of business days (M-F).
- 2) Sites to submit data collected for both research aims within 7 days of the end of the month.
- 3) Sites to increase time spent counseling patients on both new and refilled prescriptions.
- 4) Pharmacists are providing expanded patient care services including increasing volume of established services and successful implementation of new services.

<u>Aim 1: Implement and assess the impact of a Tech-Check-Tech program in community pharmacies in Iowa on patient safety measures.</u> "50 refills per month for the reminder of the project will be double checked for errors."

Aggregate Data from Technician checked prescriptions collected 6/2/14 -11/30/15:		Aggregate data from Baseline collection (Pharmacist-checked prescriptions):	
Aug- Nov. 2015:	Total Prescription Refills Check	ed 5,565	
1,217	Wrong Drug	1	
0	Wrong Strength	0	
0	Safety Cap Error	8	
0	Wrong Amount	2	
0	Other Errors	4	
0	Wrong Data Entry =1 Wrong Days Supply=1 NA=1		
	Wrong Place in Cassette=1		
0% 0% (n=0.191)	Patient-Safety errors 2 (1 wrong drug, 1 wrong data entry)		
0% - 0%	Patient-Safety error rate	0.036%	
0	Administrative error rate	13 0.23%	
0% 0%	Total Errors	15	
(p=0.031) 0-0%	Overall Error Rate	0.2695%	
	Mean Error Rate	0.27% (±0.229%)	
0 0% 0% (p=0.02) 0 - 0%	Range	0.00% to 0.585%	
	Aug- Nov. 2015: 1,217 0 0 0 0 0 0 0 0 0 0 0 0 0	Aug- Nov. 2015: 1,217 O Wrong Strength O Wrong Amount O Wrong Data Entry =1 Wrong Days Supply=1 NA=1 Wrong Place in Cassett O*	

Conclusion:

No errors were reported this quarter for technician-verified refills. The overall error rate (p=0.002) and administrative error rate (p=0.031) were significantly lower than pharmacist-verified refills at baseline. There was no statistical change in administrative errors (p=0.191).

Aim 2: Implement and assess the impact of a Tech-Check-Tech program in community pharmacies in Iowa and in facilitating the provision of community pharmacist-provided medication therapy management.

"The primary data sources will be self-reported pharmacist daily activity logs and numbers of both compensated and identified opportunities for MTM and other patient care services. Once the Tech-Check-Tech procedures have been initiated and are performing adequately as defined above, the pharmacist(s) at the participating pharmacies will begin to focus on increasing the amount of MTM services provided."

Aggregate data: Composition of Pharmacist Day

	<u>Baseline</u>	TCT 8/1/15 - 11/30/15	p-value compared
			to baseline
Time Spent in Dispensing	67.3%	45.73%	p=0.029
	Range = 38.73% 80.81%	Range = 24.15% 72.62%	
Time Spent in	9.2%	7.22%	p=0.221
Management	Range = 5.81% 12.79%	Range = 2.79% 10.72%	
Time Spent in Patient	15.9%	38.54%	p=0.001
Care	Range = 11.03% 19.39%	Range = 20.40% 54.45%	
Time Spent in Practice	3.5%	6.60%	p=0.303
Development	Range = 0.25% 14.43%	Range = 0.89% 13.59%	
Time Spent in Other	4.1%	1.92%	p=0.364
Activities	Range = 0% 14.66%	Range = 0% 4.31%	

Conclusion:

The amount of time pharmacists spend in dispensing has gone down with a corresponding increase in patient care activities and no significant change in other categories. The amount of pharmacist time spent in patient care has increased significantly, increasing from 15.9% to 38.54% (p=0.001). The amount of pharmacist time spent in dispensing decreased significantly, from 67.3% or 45.73% (p=0.029). The average pharmacist spent 22% more time in patient care and 21% less time in dispensing compared to baseline.

^{*}Please see appendix A for individual site data.

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Aggregate data: Number of Services Provided

Number of services provided from 8/1/15 – 11/30/15:

Reimbursed Patient Care Services per Pharmacist Hour

Average 0.60 ± 0.40 (p=0.028)*

Range 0.024 to 1.09

Non-Reimbursed Patient Services Care per Pharmacist Hour

Average 5.37 ± 2.15 (p=0.167)

Range 2.77 to 9.35

Total Patient Care Services per Pharmacist Hour

Average 5.97 ± 2.45 (p=0.127)

Range 3.01 to 10.44

*p value comparison with baseline

Number of service provided during baseline collection:

Reimbursed Patient Care Services per Pharmacist Hour

Average 0.1101 ± 0.184

Range 0 to 0.51

Non-Reimbursed Patient Services Care per Pharmacist Hour

Average 2.7705 ± 3.79673

Range 0.13 to 11.24

Total Patient Care Services per Pharmacist Hour

Average 2.8806 ± 3.96796

Range 0.14 to 11.75

Conclusion:

The overall amount of both reimbursed and non-reimbursed patient care services per pharmacist per hour have increased compared to baseline. This quarter, the increase in reimbursed patient care services was statistically significant. Over an average 8-hour shift, the pharmacist at baseline performed approximately 1 reimbursed service and 22 non-reimbursed services. This quarter, over an average 8-hour shift, the pharmacist performed approximately 5 reimbursed services and 43 non-reimbursed services.

^{*}Please see appendix A for individual site data.

Aggregate Data: Number of services per hour:

Service Type	<u>Baseline</u>	TCT (8/1/15 - 11/30/15)	p-value compared to
			<u>baseline</u>
Prescription Counseling	Avg. = 0.0735	Avg. = 0	p=0.35
Reimbursed	Range= 0 – 0.51	Range = 0	
	2/7 Pharmacies Provided	0/6 pharmacies provided	
Prescription Counseling	Avg. = 2.3780	Avg. = 4.37	p=0.29
Non-Reimbursed	Range= 0.0304 – 10.45	Range= 1.60 – 9.13	
	7/7 Pharmacies Provided	6/6 pharmacies provided	
Drug Therapy Problems	Avg. = 0.0014	Avg. = 0	p=0.36
Identified Through	Range= 0 – 0.01	Range = 0	
Dispensing DUR	1/7 Pharmacies Provided	0/6 pharmacies provided	
Reimbursed			
Drug Therapy Problems	Avg. = 0.1333	Avg. = 0.72	p=0.32
Identified Through	Range= 0.3 – 0.47	Range = 0.05 – 3.3	
Dispensing DUR	7/7 Pharmacies Provided	6/6 pharmacies provided	
Non-Reimbursed			
Drug Information Request	Avg. = 0.0003	Avg. = 0	p=0.36
Reimbursed	Range= 0 – 0.002	Range = 0	
	1/7 Pharmacies Provided	0/6 pharmacies provided	
Drug Information Request	Avg. = 0.6995	Avg. = 0.09	p=0.56
Non-Reimbursed	Range= 0.012 – 0.1724	Range = 0.01 – 0.21	
	7/7 Pharmacies Provided	6/6 pharmacies provided	
Patient Education	Avg. = 0.0031	Avg. = 0.01	p=0.55
Reimbursed	Range= 0 – 0.02 2	Range = 0 – 0.05	
	1/7 Pharmacies Provided	1/6 pharmacies provided	
Patient Education	Avg. = 0.0899	Avg. = 0.06	p=0.46
Non-Reimbursed	Range= 0.021 – 0.192	Range = 0.01 – 0.1	
	7/7 Pharmacies Provided	6/6 pharmacies provided	
Immunizations	Avg. = 0.005	Avg. = 0.44	p=0.01
Reimbursed	Range= 0 – 0.013	Range = 0.1 – 0.84	
	1/7 Pharmacies Provided	6/6 pharmacies provided	
Immunizations	Avg. = 0.0034	Avg. = 0.0	p=0.25
Non-Reimbursed	Range= 0 – 0.019	Range = 0	
	2/7 Pharmacies Provided	0/6 pharmacies provided	
Injection Administration	Avg. = 0.0032	Avg. = 0.10	p=0.33
Reimbursed	Range= 0 – 0.0086	Range = 0 – 0.54	
	4/7 Pharmacies Provided	3/6 pharmacies Provided	
Injection Administration	Avg. = 0.00	Avg. = 0.0	p=n/a (the same
Non-Reimbursed	Range= 0	Range = 0	result)
	0/7 Pharmacies Provided	0/6 pharmacies Provided	

Aggregate Data: Number of services per hour (continued):

Service Type	<u>Baseline</u>	TCT (8/1/15 – 11/30/15)	p-value compared to
			<u>baseline</u>
Patient Screening/Testing	Avg. = 0.0018	Avg. = 0.01	p=0.47
Reimbursed	Range = 0 – 0.013	Range = 0 – 0.04	
	1/7 Pharmacies Provided	1/6 pharmacies provided	
Patient Screening/Testing	Avg. = 0.0018	Avg. = 0.03	p=0.48
Non-Reimbursed	Range= 0 – 0.105	Range = 0.0 – 0.08	
	5/7 Pharmacies Provided	4/6 pharmacies provided	
MTM Current Medication	Avg. = 0.0047	Avg. = 0.01	p=0.42
List/History	Range= 0 – 0.02 0	Range = 0 - 0.06	
Reimbursed	2/7 Pharmacies Provided	2/6 pharmacies provided	
MTM Current Medication	Avg. = 0.0066	Avg. = 0.02	p=0.51
List/History Non-	Range= 0 – 0.022	Range = 0 - 0.08	
Reimbursed	3/7 Pharmacies Provided	2/6 pharmacies provided	
MTM Medication	Avg. = 0.0078	Avg. = 0.01	p=0.93
Reconciliation	Range= 0 – 0.042	Range = 0 - 0.04	
Reimbursed	2/7 Pharmacies Provided	2/6 pharmacies provided	
MTM Medication	Avg. = 0.0226	Avg. = 0.01	p=0.43
Reconciliation	Range= 0 – 0.076	Range = 0 - 0.04	
Non-Reimbursed	3/7 Pharmacies Provided	3/6 pharmacies provided	
MTM Patient Follow-up	Avg. = 0.0025	Avg. = 0.01	p=0.58
Reimbursed	Range= 0 – 0.017	Range = 0 - 0.02	
	1/7 Pharmacies Provided	2/6 pharmacies provided	
MTM Patient Follow-up	Avg. = 0.0133	Avg. = 0.02	p=0.72
Non-Reimbursed	Range= 0 – 0.084	Range = $0 - 0.10$	
	2/7 Pharmacies Provided	3/6 pharmacies provided	
MTM Patient Interview	Avg. = 0.0012	Avg. = 0.02	p=0.09
Reimbursed	Range= 0 – 0.086	Range = 0 – 0.05	
	1/7 Pharmacies Provided	3/6 pharmacies provided	
MTM Patient Interview	Avg. = 0.0061	Avg. = 0.02	p=0.52
Non-Reimbursed	Range= 0 – 0.035	Range = 0 – 0.09	
	2/7 Pharmacies Provided	2/6 pharmacies provided	
MTM Provider Consult	Avg. = 0.0003	Avg. = 0.0	p=0.25
Reimbursed	Range= 0 – 0.002	Range = 0 -0.01	
	1/7 Pharmacies Provided	2/6 pharmacies provided	
MTM Provider Consult	Avg. = 0.0190	Avg. = 0.02	p=0.93
Non-Reimbursed	Range= 0 – 0.133	Range = 0 – 0.05	
	1/7 Pharmacies Provided	3/6 pharmacies provided	
MTM Other Services	Avg. = 0.0051	Avg. = 0.00	p=0.36
Reimbursed	Range= 0 – 0.036	Range = 0	
	1/7 Pharmacies Provided	0/6 pharmacies provided	
MTM Other Services	Avg. = 0.0172	Avg. = 0.01	p=0.68
Non-Reimbursed	Range= 0 – 0.089	Range = 0 – 0.06	
	2/7 Pharmacies Provided	1/6 pharmacies provided	

Conclusion:

There appears to be an increase in *patient counseling, addressing DURs, and immunizations*. Anecdotally, pharmacists have reported having more time with each patient, providing a better quality service than prior to TCT.

*Please see appendix A for individual site data.

SUMMARY

- Tech-Check-Tech portion of the study in Phase I sites went live on June 2, 2014.
 - On average, Phase I sites used the Tech-Check-Tech model approximately <u>61%</u> of the time, not including weekends and holidays. This was below the initial goal of 75%.

Month	Average # full TCT Days	Average # half TCT	% of time doing TCT
		days	
August	10.33	1.33	55%
September	9.17	6.17	61%
October	9.5	5.17	60%
November	12	3.83	70%
Overall Quarter	41 Range: 0 – 70* *Excluding site that had zero: 43 - 70	16.17 Range: 3 - 39	61%

- Adequate staffing continued to be the biggest challenge to the TCT model in Phase I sites. The sites report that TCT process is smooth when adequately staffed.
 - There may be a certain level of baseline staffing or volume that would allow for TCT to be implemented without adding staff. Six of the seven sites added either clerk or additional technician help at some point during the project. Many of the sites just need to add one part-time person, varying between 10-20 hours per week. Some sites were able to increase the amount of revenue through MTM claims and immunizations which helped to cover the cost of the additional staff.
- A small group from the NPM task force met on December 22, 2014 to establish guidelines on when to consider discontinuation of the project due to a site's inability to fully participate in the NPM project requirements (see Appendix B). The group recognized the importance of reviewing each site on a case-by-case basis. Action plans were created for two of the seven sites over the course of the project and both sites were able to successfully address issues set forth in the plan. One site struggled throughout but never met the requirements to need a formal action plan. One site dropped out of the pilot due to closing the pharmacy. The remaining six sites were able to successfully complete the requirements for this pilot.
- Creating a new workflow, establishing roles and job redistribution was a challenge initially.
- Any tech-check-tech workflow can increase the amount of pharmacist time spent on patient care compared with the traditional model.

- IPA supported the sites throughout the pilot with multiple live meetings and frequent site visits.
 - The IPA project manager visited each site every 2-3 months for the duration of the 18 month pilot.
 - The next live meeting will be in March or April of 2016.

EXPANDING PHARMACIST-PROVIDED PATIENT CARE SERVICES

- Sites are discussing and integrating the Pharmacists' Patient Care Process, a nationally endorsed method for incorporating patient care into pharmacies.
- Sites have reported they have more time for counseling, adherence monitoring, and immunizations.
- Sites have also reported an increase in non-influenza immunizations (primarily, pneumococcal, herpes zoster, and tetanus, diptheria, acellular pertussis).
 - Some sites have implemented a screening tool used to assess vaccine needs while
 patients are waiting to pick up medications or started calling lists to call eligible patients
 in free time.
- Sites were able to:
 - Expand MTM opportunities
 - Expand Med Sync, compliance packaging and adherence programs
 - Site 5: Implemented a Med Sync program; Site 3: Implemented a formal adherence program through Prescribe Wellness
 - 6 of the 7 sites have implemented or expanded Med Sync compared to 2 sites prior to TCT
 - Establish collaborative practice agreements
 - o Reaching out to other providers to let them know about pharmacy services

PHARMACIST AND TECHNICIAN TRAINING

- No pharmacists or technicians have joined the project since August 2015.
- Revised CEI modules are available for future staff additions. Modules are being used for phase I and phase II sites. The modules are on-demand and accredited for C.P.E.
 - Modules were available starting September 9, 2014.

CONCLUSION

The technician error rate has been lower or not statistically different for Phase I sites with Tech-Check-Tech compared to the traditional Pharmacist-Check-Tech model. The Tech-Check-Tech intervention was a successful approach to increasing the amount of time pharmacists spent in patient care at all sites.

FUTURE DIRECTION/GOALS

We aim to continue studying Tech-Check-Tech for refill prescriptions in these sites through July 2016 to determine if further amount of time in this model will further increase benefits seen.

PHASE ONE PROJECT TIMELINE

Month 1-3	Project start-up; Finalize procedures for MTM service delivery and data collection
Month 2	Submit proposal to Iowa Board of Pharmacy for pilot/demonstration project – Approved March 12, 2014
Month 5	Community pharmacies implement Tech-Check-Tech programs; pharmacists engage in collaborative practice agreements for patient care delivery – <i>Implemented TCT June 2, 2014</i>
Month 23	Pilot project authority expires for Tech-Check-Tech Pilot ends December 2, 2015 Approved September 2, 2015 to renew pilot through Aug 2, 2016
Month 22-24	Data analyses and report writing

PHASE TWO PROJECT TIMELINE

Month 1-3	Project start-up; Identify sites
Month 2	Submit proposal to Iowa Board of Pharmacy for pilot/demonstration project – Approved November 19, 2014
Month 5	Community pharmacies implement Tech-Check-Tech programs; pharmacists engage in collaborative practice agreements for patient care delivery – <i>Implemented TCT February 2, 2015</i>
Month 23	Pilot project authority expires for Tech-Check-Tech Pilot ends August 2, 2016
Month 22-24	Data analyses and report writing

APPENDIX A

In order to protect the confidentiality of each site, there is no correlation between the order of the individual site reports A-G and the numerical designation on pages 2 - 3 of this report.

Individual Site Data for Site A: Percent of time utilizing TCT = 65.29%

Site A Data from Tech collected (8/1/15 – 11/	nician checked prescriptions 30/15):	Site A data from Baseline collection (Pharmacist-checked prescriptions):	
Total Rx Refills Checke	d 202	Total Prescription Refills Checked	752
Wrong Drug	0	Wrong Drug	1
Wrong Strength	0	Wrong Strength	0
Safety Cap Error	0	Safety Cap Error	0
Wrong Amount	0	Wrong Amount	0
Other Errors	0	Other Errors	0
Total Errors	0	Total Errors	1
Overall Error Rate	0.0%	Overall Error Rate	0.13%

Composition of Pharmacist Day

	<u>Baseline</u>	TCT (8/1/15 – 11/30/15)
Time Spent in Dispensing	71.02%	45%
Time Spent in Management	10.25%	7.5%
Time Spent in Patient Care	16.60%	38.75%
Time Spent in Practice Development	0.62%	8.75%
Time Spent in Other Activities	1.50%	0.0%

	<u>Baseline</u>	TCT (8/1/15 – 11/30/15)
Reimbursed Patient Care Services	0.000	0.68
Non-Reimbursed Patient Services Care	1.9938	5.04
Total Patient Care Services	1.9938	5.73

Individual Site Data for Site B: Percent of time utilizing TCT = 54.12%

Site B Data from Technician checked prescriptions	Site B data from Baseline collection (Pharmacist-	
<u>collected (8/1/15 – 11/30/15):</u>	checked prescriptions):	
Total Rx Refills Checked 200 Wrong Drug 0	Total Prescription Refills Checked 758 Wrong Drug 0	
Wrong Strength 0	Wrong Drug 0	
Safety Cap Error 0	Wrong Strength 0	
	Safety Cap Error 3	
Wrong Amount 0	Wrong Amount 0	
Other Errors 0	Other Errors 0	
Total Errors 0	Total Errors 3	
Overall Error Rate 0%	Overall Error Rate 0.396%	

Composition of Pharmacist Day

	<u>Baseline</u>	TCT (8/1/15 - 11/30/15)
Time Spent in Dispensing	69.56%	44.10%
Time Spent in Management	9.17%	4.30%
Time Spent in Patient Care	17.44%	47.03%
Time Spent in Practice Development	0.71%	5.57%
Time Spent in Other Activities	3.11%	1.01%

	<u>Baseline</u>	TCT (8/1/15 – 11/30/15)
Reimbursed Patient Care Services	0.0862	1.05
Non-Reimbursed Patient Services Care	1.8405	5.08
Total Patient Care Services	1.9267	6.13

Individual Site Data for Site C: Percent of time utilizing TCT = 71.76%

Site C Data from Technician checked prescriptions		Site C data from Baseline collection (Pharmacist-	
<u>collected (8/1/15 – 11/</u>	/30/15):	checked prescriptions):	
Total Rx Refills Checke	ed 215		
Wrong Drug	0	Total Prescription Refills Checked	752
Wrong Drug	O	Wrong Drug	0
Wrong Strength	0	Wrong Strength	0
Safety Cap Error	0	wrong strength	0
Mrang Amount	0	Safety Cap Error	0
Wrong Amount	U	Wrong Amount	0
Other Errors	0	Oth or Francis	1
		Other Errors	1
		Days' Supply =1	
Total Errors	0		
		Total Errors	1
Overall Error Rate	0.0%	Overall Error Rate	0.13%

Composition of Pharmacist Day

	Danalina	TCT (0/4/45 44/00/45)
	<u>Baseline</u>	TCT (8/1/15 – 11/30/15)
Time Spent in Dispensing	74.47%	57.05%
Time Spent in Management	9.26%	10.36%
Time Spent in Patient Care	14.95%	30.67%
·		
Time Spent in Practice Development	1.32%	0.89%
Time Spent in Other Activities	0.00%	1.04%
•		

	<u>Baseline</u>	TCT (8/1/15 – 11/30/15)
Reimbursed Patient Care Services	0.00	0.24
Non-Reimbursed Patient Services Care	1.9857	2.77
Total Patient Care Services	1.9857	3.01

Individual Site Data for Site D: Percent of time utilizing TCT – 22.94%

<u>Site D data from Baseline collection (Pharmaci</u> <u>checked prescriptions):</u>	Site D data from Baseline collection (Pharmacist-checked prescriptions):	
Total Prescription Refills Checked 750		
Wrong Drug 0		
wrong Strength 0		
Safety Cap Error 4		
Wrong Amount 0		
Other Errors 0		
Total Errors 4		
Overall Error Rate 0.53%		
·CI	checked prescriptions):Total Prescription Refills Checked750Wrong Drug0Wrong Strength0Safety Cap Error4Wrong Amount0Other Errors0Total Errors4	

Composition of Pharmacist Day

	<u>Baseline</u>	TCT (8/1/15 - 11/30/15)
Time Spent in Dispensing	80.81%	72.62%
Time Spent in Management	5.81%	2.80%
Time Spent in Patient Care	13.13%	20.40%
Time Spent in Practice Development	0.25%	1.34%
Time Spent in Other Activities	0.00%	2.85%

	<u>Baseline</u>	TCT (8/1/15 – 11/30/15)
Reimbursed Patient Care Services	0.0152	0.26
Non-Reimbursed Patient Services Care	0.1266	4.73
Total Patient Care Services	0.1418	4.99

Site E is no longer in the pilot.

<u>Individual Site Data for Site F: Percent of time utilizing TCT = 57.06%</u>

Site F Data from Technician checked prescriptions collected (8/1/15 – 11-30/15):		Site F data from Baseline collection (Pharmacist-checked prescriptions):	
Total Rx Refills Check	ed 200	Total Prescription Refills Checked	854
Wrong Drug	0	Wrong Drug	0
Wrong Strength	0	Wrong Strength	0
Safety Cap Error	0	Safety Cap Error	0
Wrong Amount	0	Wrong Amount	2
Other Errors	0	Other Errors	3
Total Errors	0	Wrong Data Entry =1 Wrong Place in Cassette=2 Total Errors	5
Overall Error Rate	0.0%	Overall Error Rate	0.5854%

Composition of Pharmacist Day

	<u>Baseline</u>	TCT (8/1/15 – 11/30/15)
Time Spent in Dispensing	38.73%	31.45%
Time Spent in Management	12.79%	10.72%
Time Spent in Patient Care	19.39%	39.95%
Time Spent in Practice Development	14.43%	13.59%
Time Spent in Other Activities	14.66%	4.31%

	<u>Baseline</u>	TCT (8/1/15 – 11/30/15)
Reimbursed Patient Care Services	0.15	0.29
Non-Reimbursed Patient Services Care	0.85	5.26
Total Patient Care Services	0.99	5.55

Individual Site Data for Site G: Percent of time utilizing TCT – 79.29%

Site G Data from Technician checked prescriptions collected (8/1/15 – 11/30/15):		Site G data from Baseline collection (Pharmacist-checked prescriptions):	
Total Rx Refills Checked	200	Total Prescription Refills Checked	926
Wrong Drug	0	Wrong Drug Wrong Strength	0
Wrong Strength Safety Cap Error	0	Safety Cap Error	0
Wrong Amount	0	Wrong Amount Other Errors	0
Other Errors	0		
Total Errors	0	Total Errors	0
Overall Error Rate	0.0%	Overall Error Rate	0.00%

Composition of Pharmacist Day

	<u>Baseline</u>	TCT (8/1/15 - 11/30/15)
Time Spent in Dispensing	71.39%	24.15%
Time Spent in Management	6.93%	7.65%
Time Spent in Patient Care	19.20%	54.45%
Time Spent in Practice Development	2.33%	11.46%
Time Spent in Other Activities	0.15%	2.29%

	<u>Baseline</u>	TCT (8/1/15 – 11/30/15)
Reimbursed Patient Care Services	0.5088	1.09
Non-Reimbursed Patient Services Care	11.2398	9.35
Total Patient Care Services	11.7485	10.44

APPENDIX B

Site Requirements for New Practice Model (NPM) Project

The following is a guideline of requirements asked of sites in the NPM project. If a site struggles to meet the requirements, members from the NPM task force will review the site's progress and develop a plan of action to help the site succeed. If the site continues to be unable to meet the requirements, the members from the task force will provide a recommendation to the board of pharmacy to consider withdrawing the site from the study.

Sites that consistently struggle with:

- 1) Submitting data on time
- 2) Changing workflow to incorporate Tech-Check-Tech
- 3) Ongoing staffing issues including low number of hours doing Tech-Check-Tech
- 4) Using freed up time to reduce pharmacist hours or engage in non-patient care activities